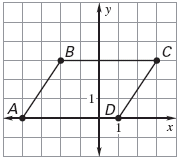
***CLASS COPY – DO NOT WRITE ON***

CW 14: SLOPES of Parallel + Perpendicular Lines

**Geometry**

|  |  |
| --- | --- |
| 1. **Line A:**   **Line B**:   1. **Line A**:   **Line B**:  What do you notice about the graphs?  What do you notice about the slopes of the lines above? | **Determine the slope of the line *(a) parallel to the given line* and *(b) perpendicular to the given line*.**  5)  6)  7)  8)  9)  10) |
| 1. **Line A**:   **Line B**   1. **Line A**:   **Line B**  What do you notice about the graphs?  What do you notice about the slopes of the lines above? |

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| --- |
| **Write the equation of a line that passes through the given point and is parallel to the given line.**  11)  12)  13)  14) Write an equation of the line that passes through point *P* and is perpendicular to the line with the given equation. *P* (1, −7) and .  15) What is the equation of the line that passes through (8, 4) and is perpendicular to ?   1. Line l and line p are perpendicular. Given that the equation for line p is and line l passes through the point (3,3), what is the equation for line l? |

1. A parallelogram is a four-sided figure whose opposite sides are parallel. *Explain* and *prove* why the figure shown is a parallelogram.
2. Is the quadrilateral with vertices (−6, 2), (−3, 6), (9, −3), (6, −7) a rectangle? Explain.

